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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,347	06/23/2003	Joel S. Bader	21402-582	1815
7	590 12/09/2005		EXAMINER	
CuraGen Corporation			CLOW, LORI A	
Jenell Lawson, Intellectual Property 555 Long Wharf Drive			. ART UNIT	PAPER NUMBER
New Haven, CT 06551			1631	
			DATE MAIL ED: 12/00/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_			
	10/602,347	BADER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lori A. Clow, Ph.D.	1631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 Ja	nuary 2005.					
•	action is non-final.					
,—						
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	•					
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-25 are subject to restriction and/or 6	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the ${ t E}$	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	: 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
• • • • • • • • • • • • • • • • • • • •	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 					
•	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	o, and common copies not	-				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Information Patent Application (PTO-152) 6) Other:						

Art Unit: 1631

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-9, drawn to a method for identifying a cellular interaction in a biological system, classified in class 702, subclass 19.
- II. Claims 10 and 11, drawn to a method of identifying an interacting protein that interacts with a test protein, classified in class 702, subclass 19.
- III. Claim 12, drawn to a polypeptide, classified in class 530, subclass 300.
- IV. Claims 13-17, 19, and 20 drawn to a method of identifying a compound that modulates a cellular pathway, classified in class 702, subclass 19.
- V. Claim 18, drawn to a compound, classified in class 530, subclass 300.
- VI. Claim 21, drawn to a method of identifying a compound that modulates a cellular pathway, classified in class 702, subclass 19.
- VII. Claim 22, drawn to a method of diagnosing a test subject affected by an aberrant cellular pathway, classified in class 702, subclass 19.
- VIII. Claims 23 and 24, drawn to a method of diagnosing a test subject suffering from or at risk of disease, classified in class 702, subclass 19.
- IX. Claim 25, drawn to a database, classified in class 707, subclass 100.

The inventions are distinct, each from the other because of the following reasons:

Although there are no provisions under the section for "Relationship of Inventions" in M.P.E.P. § 806.05 for inventive groups that are directed to different methods, restriction is

Art Unit: 1631

deemed proper because the methods appear to constitute patentably distinct inventions for the following reasons: Groups I, II, IV, and VI-VIII are directed to methods that recite structurally and functionally distinct elements, are not required one for the other, and/or achieve different goals. Group I is directed to a method for identifying a cellular interaction in a biological system by applying a predictive interaction model. Group II is drawn to a method of identifying an interacting protein that interacts with a test protein. Group IV is drawn to a method of identifying a compound that modulates a cellular pathway by contacting the biological system with the candidate agent. Group VI is directed to a method of identifying a compound that modulates a cellular pathway by employing a model. Group VII is drawn to a method of diagnosing a subject affected by an aberrant cellular pathway. Group VIII is drawn to a method of diagnosing a test subject suffering from a disease. These distinct processes and methods are often separately characterized and published in the literature and would add undue search burden if examined together. Thus, they are considered distinct invention types for restriction purposes.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polypeptide of Group III can be used in the distinct processes of the invention of Groups I and in therapeutic processes to replace a missing protein, or, alternatively, the activity of a protein can be utilized in an industrial process for chemical processing.

Art Unit: 1631

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group II does not yield the product of Group III, therefore they are distinct inventions.

Inventions IV and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group IV does not yield the product of Group III.

Inventions VI and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group VI does not yield the product of Group III.

Inventions VII and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group VII does not yield the product of Group III.

Inventions VIII and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group VIII does not yield the product of Group III.

Inventions IX and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different

Art Unit: 1631

functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the database of Group IX does not use the product of Group III.

Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group I does not yield the product of Group V; therefore the two are distinct inventions.

Inventions II and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group II does not yield the product of Group V, therefore the two are distinct inventions.

Inventions III and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group I does not yield the product of Group V; therefore the two are distinct inventions.

Inventions IV and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the compound of Group V can be used in the distinct processes of the invention of Groups IV and in therapeutic processes to replace a missing protein, or, alternatively, the activity of a protein can be utilized in an industrial process for chemical processing.

Art Unit: 1631

Inventions VI and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group VI does not yield the product of Group V, therefore the two are distinct inventions.

Inventions VII and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group VII does not yield the product of Group V, therefore the two are distinct inventions.

Inventions VIII and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group VIII does not yield the product of Group V, therefore the two are distinct inventions.

Inventions IX and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the database of Group IX does utilize the compound of Group V therefore the two are distinct inventions.

Inventions I and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the database of Group IX does not include any methods steps belonging to the invention of Group I. The two are unrelated.

Art Unit: 1631

Inventions II and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the database of Group IX does not include any methods steps belonging to the invention of Group II. The two are unrelated.

Inventions IV and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the database of Group IX does not include any methods steps belonging to the invention of Group IV. The two are unrelated.

Inventions VI and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the database of Group IX does not include any methods steps belonging to the invention of Group VI. The two are unrelated.

Inventions VII and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the database of Group IX does not include any methods steps belonging to the invention of Group VII. The two are unrelated.

Inventions VIII and IX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation,

Art Unit: 1631

different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the database of Group IX does not include any methods steps belonging to the invention of Group VIII. The two are unrelated.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central Fax Center Number is (571) 273-8300. Any inquiry concerning this communication or earlier communications from the examiner

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lori A. Clow, Ph.D., whose telephone number is (571) 272-0715. The examiner can normally be reached on Monday-Friday from 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, Ph.D., can be reached on (571) 272-0718.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Art Unit: 1631

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November 30, 2005 Lori A. Clow, Ph.D.

Art Unit 1631

MARJORIE A. MORAN PRIMARY EXAMINER

Sayoup a. Soran